

Application No.: 10/690,595

Docket No.: 2336-215

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (canceled)
2. (currently amended) The internal antenna as set forth in claim [[1]] 4, wherein the power feed unit or the ground unit is arranged at an end of a side surface of the dielectric support unit ~~for supporting the antenna~~.
3. (currently amended) The internal antenna as set forth in claim [[1]] 4, wherein the dielectric support unit has an approximately hexahedral shape, and the first radiation unit is divided into the [[a]] left radiation unit, an upper radiation unit, a right radiation unit and a lower radiation unit according to their positions arranged on [[an]] the upper surface of the dielectric support unit.
4. (currently amended) An internal antenna for a mobile communication terminal, said antenna comprising:
a dielectric support unit for supporting the antenna;
a power feed unit for feeding power to the antenna;
a ground unit for grounding the antenna;
a first radiation unit formed in a band shape with a designated width, having one end connected to the power feed unit and another end connected to the ground unit, arranged along an edge of an upper surface of the dielectric support unit so as to form a loop-shaped current path, and

Application No.: 10/690,595Docket No.: 2336-215

radiating at a designated low frequency band when a current is introduced to the power feed unit; and

~~The internal antenna as set forth in claim 1, further comprising a second radiation unit formed in a band shape with a designated width, connected to an inner side of [[the]] a left radiation unit of the first radiation unit, arranged on [[an]] the upper surface of the dielectric support unit, and radiating at a designated high frequency band [[using]] when the current is introduced through to the power feed unit.~~

5. (original) The internal antenna as set forth in claim 4, wherein the left, upper and right radiation units of the first radiation unit are extended such that their extended portions are arranged on a rear surface of the dielectric support unit.

6. (original) The internal antenna as set forth in claim 4, wherein the left, upper and right radiation units of the first radiation unit are extended such that their extended portions are arranged on rear and lower surfaces of the dielectric support unit.

7. (currently amended) The internal antenna as set forth in claim 4, wherein the upper, right and lower radiation units of the first radiation unit are extended such that their extended portions are arranged on a right side surface or a lower surface of the dielectric support unit.

8. (currently amended) The internal antenna as set forth in claim 7, wherein the second radiation unit is extended such that its extended portion is arranged on [[a]] the right side surface of the dielectric support unit.

9. (currently amended) An internal antenna for a mobile communication terminal, said antenna comprising:

a dielectric support unit for supporting the antenna;

Application No.: 10/690,595Docket No.: 2336-215

a power feed unit for feeding power to the antenna;
a ground unit for grounding the antenna;
a first radiation unit formed in a band shape with a designated width, having one end connected to the power feed unit and another end connected to the ground unit, arranged along an edge of an upper surface of the dielectric support unit so as to form a loop-shaped current path, and radiating at a designated low frequency band when a current is introduced to the power feed unit;
and;

~~The internal antenna as set forth in claim 1, further comprising a third a further radiation unit formed in a band shape with a designated width, connected to an outer side of [[the]] a left radiation unit of the first radiation unit, arranged on a left side surface or a lower surface of the dielectric support unit for supporting the antenna, and radiating at a designated high frequency band [[using]] when the current is introduced through to the power feed unit.~~

10. (currently amended) The internal antenna as set forth in claim 9, further comprising a frequency adjustment unit formed in a band shape with a designated width, and connected to an outer side of the first radiation unit ~~for in parallel,~~ and adjusting a frequency to be processed by the antenna so as to control impedance matching.

11. (currently amended) The internal antenna as set forth in claim 10, wherein the frequency adjustment unit is connected to an outer side of [[the]] a lower radiation unit of the first radiation unit and arranged along a front surface or the lower surface of the dielectric support unit.

12. (currently amended) The internal antenna as set forth in claim 11, wherein the frequency adjustment unit is bent at a designated position of the lower surface of the dielectric support unit toward [[the]] a right side surface of the dielectric support unit.

13. (currently amended) The internal antenna as set forth in claim [[1]] 4, wherein the

Application No.: 10/690,595Docket No.: 2336-215

mobile communication terminal is a folder-type terminal.

14. (new) An internal antenna for a communication terminal, said antenna comprising:
 - a dielectric support;
 - a power terminal formed on the dielectric support for providing power to the antenna;
 - a ground terminal formed on the dielectric support for grounding the antenna;
 - a first, elongated radiation element resonating at a first frequency band when the antenna is powered via said power terminal, wherein said first radiation element is formed on said dielectric support and has opposite ends connected to the power and ground terminals to form a current path between said terminals, said current path having a shape of an open loop; and
 - a second, elongated radiation element resonating at a second frequency band higher than the first frequency band when the antenna is powered via said power terminal, wherein said second radiation element is a branch connected to a middle section of said open loop of said first radiation element.

15. (new) The internal antenna as set forth in claim 14, wherein
 - the dielectric support has an approximately hexahedral shape with upper, lower, right side, left side, front and rear faces;
 - said open loop of said first radiation element and said second radiation element are completely positioned on the upper face of said dielectric support; and
 - said second radiation element extends inwardly of said open loop.

16. (new) The internal antenna as set forth in claim 14, wherein
 - the dielectric support has an approximately hexahedral shape with upper, lower, right side, left side, front and rear surfaces;
 - said open loop of said first radiation element is formed on at least two adjacent ones of said faces; and

Application No.: 10/690,595

Docket No.: 2336-215

said second radiation element is formed on at least one of said at least two adjacent faces.

17. (new) The internal antenna as set forth in claim 14, wherein the dielectric support has an approximately hexahedral shape with upper, lower, right side, left side, front and rear surfaces; and said open loop of said first radiation element and said second radiation element are not coexistent on any of said faces.

18. (new) The internal antenna as set forth in claim 17, further comprising an elongated, frequency adjustment element connected to said first radiation element for adjusting a frequency to be processed by the antenna so as to control impedance matching.

19. (new) The internal antenna as set forth in claim 4, further comprising a third radiation unit formed in a band shape with a designated width, connected to an outer side of the left radiation unit of the first radiation unit, arranged on a left side surface or a lower surface of the dielectric support unit, and radiating at a designated high frequency band when the current is introduced to the power feed unit.

20. (new) The internal antenna as set forth in claim 19, further comprising a frequency adjustment unit formed in a band shape with a designated width, and connected to an outer side of the first radiation unit for adjusting a frequency to be processed by the antenna so as to control impedance matching.

21. (new) The internal antenna as set forth in claim 20, wherein the frequency adjustment unit is connected to an outer side of a lower radiation unit of the first radiation unit and arranged along a front surface or the lower surface of the dielectric support unit.

Application No.: 10/690,595

Docket No.: 2336-215

22. (new) The internal antenna as set forth in claim 21, wherein the frequency adjustment unit is bent at a designated position of the lower surface of the dielectric support unit toward a right side surface of the dielectric support unit.